



AUGUST 31, 1964

Cedar Rapids, Iowa 52406

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REVISION TO
51S SERVICE BULLETIN NO. 3
DATED 8-11-64

Attached is a revised copy of incorrectly numbered 51S Service Bulletin No. 2, originally dated 8-11-64 and titled, "Improve Sensitivity of Lower Bands".

This revision corrects the Service Bulletin number from 2 to 3.

The attached completely replaces the referenced service bulletin. The black lines in the margin indicate where changes have been made to the original publication.



EQUIPMENT SERIES: 51S

BULLETIN NO. 3

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EQUIPMENT TYPE: 51S-1/1A/1AF/1F COMMUNICATIONS RECEIVERS

SUBJECT: IMPROVE SENSITIVITY OF LOWER BANDS

The modification in this bulletin will provide improved sensitivity of the lower bands and allow a wider margin in 6DC6 tube characteristics.

Some 6DC6 tubes, used in V1 position, have been found to exhibit marginal noise resistance characteristics resulting in reduced sensitivity in the lower bands. This modification reduces the effects of this deficiency in tube manufacture.

The 6DC6 tube continues to be used in this application because of its excellent agc characteristics.

This modification is considered optional by the manufacturer.

This modification will be installed at time of manufacture in 51S-1 Receivers with serial numbers 1770 and above. The 6th Edition of the 51S-1/1A/1F/1AF Instruction Book will cover this modification.

MODIFICATION PROCEDURE:

1. Remove bottom shield over r-f turret compartment.
2. Remove bus wire connected between terminal 4 of large terminal strip in r-f amplifier compartment and pin 6 of tube socket XV1. (This 6-lug terminal strip is the center of the three terminal strips on the compartment shield. The terminal strip toward front of unit has 5 lugs and the one toward the rear of unit has 3 lugs. The lugs are numbered from back to front of unit.)
3. Install 47K resistor R151 in place from which bus wire was removed.
4. Install 0.01-uf capacitor C318 (913-3013-00) from terminal 4 of terminal strip described in step 2 to partition shield (ground) across tube socket XV1.
5. Replace bottom shield.

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PARTS REQUIRED:

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<u>Qty</u>	<u>Description</u>		<u>Collins Part Number</u>	<u>Price</u>
1	Resistor, 47K $\pm 10\%$, 1/2 watt carbon composition	R151	745-1422-000	\$0.04
1	Capacitor, 0.01 uf $\pm 20\%$, 500 wvdc ceramic disc	C318	913-3013-000	0.19

The above parts may be obtained from Collins Radio Company, Service Parts Department, Cedar Rapids, Iowa at the prices indicated. All orders must specify the Collins part numbers of the parts required and make reference to 51S Service Bulletin No. 3. These parts are available for immediate shipment. The prices indicated are subject to change without notice.